

Application No.: 10/697,948Docket No.: 200309856-2 US (1509-454)**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A backup system for storing data objects on secondary storage devices, the backup system comprising a plurality of buffer memories for interfacing with the secondary storage devices and the back up system being configurable to couple at least a sub-set of the buffer memories in a daisy-chain for sequential storage of the data in the daisy chain as data objects on one of the secondary storage devices.

2. (Currently amended) The backup system of claim 1, further comprising (a) the secondary storage devices, (b) at least one backup media agent having a plurality of the buffer memories, and (c) a program module for sequentially writing data from the at least the subset of the buffer memories to the one of the secondary storage devices device, the one secondary storage device being assigned to the at least one backup media agent.

3. (Original) The backup system of claim 2, further comprising a backup group having a plurality of the backup media agents.

4. (Original) The backup system of claim 2, further comprising at least one mirroring backup media agent, the mirroring back up media agent comprising a plurality of buffer memories and a program module for writing data from the buffer memories to one of the secondary storage devices assigned to the at least one mirroring backup media agent, and at least

Application No.: 10/697,948Docket No.: 200309856-2 US (1509-454)

a sub-set of the buffer memories of the at least one backup media agent being coupled in a daisy-chain configuration to at least a sub-set of the buffer memories of the at least one backup media agent.

5. (Original) The backup system of claim 4, further comprising at least one mirror group comprising a plurality of the mirroring backup media agents.

6. (Original) The system of claim 4, at least first and second ones of the mirroring backup media agents being coupled in a cascaded configuration for providing first and second mirroring levels.

7. (Original) The backup system of claim 2, further comprising at least one restore media agent comprising a plurality of buffer memories and a program module for reading data objects from one of the secondary storage devices assigned to the at least one restore media agent, at least a sub-set of the buffer memories of the at least one restore media agent being coupled to at least a sub-set of the buffer memories of the backup media agents.

8. (Original) The backup system of claim 7, further comprising at least one restore group having a plurality of the restore media agents.

9. (Original) The backup system of claim 7, further comprising a copy group, the copy group having a plurality of the backup media agents.

Application No.: 10/697,948

Docket No.: 200309856-2 US (1509-454)

10. (Original) The backup system of claim 1, further comprising a plurality of client computer systems and a backup server, the plural client computer systems having primary storage devices for storing the data objects, and each client computer system having a backup component for assigning an unequivocal identifier to data objects and for sending the data objects with the assigned unequivocal identifiers to the backup server.

11. (Currently amended) A server computer system comprising:
a plurality of buffer memories for sequentially coupling data stored in at least some of the buffer memories to one of plural to a plurality of backup storage devices,
and a configuration file for defining a configuration of the buffer memories for providing at least one level of data mirroring in the buffer memories,
and for enabling the mirrored data stored in the buffer memories and data that are not mirrored and are stored in the buffer memories to be coupled to the backup storage device.

12. (Currently amended) A server computer system comprising:
a plurality of buffer memories for coupling data stored in the buffer memories to a plurality of secondary storage devices,
a configuration file for defining a daisy-chain configuration of the buffer memories for sequential copying of data objects from a first sub-set of the secondary storage devices to a second sub-set of the secondary storage devices.

13. (Currently amended) A memory storing a computer program for controlling a computer system to cause sequential coupling of data from a plurality of buffer memories in a

Application No.: 10/697,948

Docket No.: 200309856-2 US (1509-454)

daisy-chain, the buffer memories being adapted to sequentially couple data from the buffer memories ~~be coupled~~ to secondary storage devices for back-up or copying of data objects, the computer program comprising instructions for reading a daisy-chain configuration definition of the buffer memories from a configuration file, and for causing sequential writing of data from a plurality of the daisy-chained buffer memories to one of the secondary storage devices.

14. (Currently amended) A memory storing a computer program for controlling a computer system for providing a user interface, the computer program comprising instructions for enabling a user to enter a specification for a configuration of buffer memories of a backup system, and for enabling the buffer memories to interface with secondary storage devices for sequential storing or copying of data objects from at least some of the buffer memories to one of the secondary storage devices.

15. (Original) The memory of claim 14, wherein the instructions enable a user to specify a daisy-chain configuration of the buffer memories.

16. (Currently amended) The memory of claim 14, wherein the instructions enable a user to specify a backup group comprising a plurality of backup media agents, each backup media agent having a plurality of buffer memories and a program module for writing data from the buffer memories to one of a plurality of secondary storage devices ~~being assigned~~ to the backup media agent.

Application No.: 10/697,948

Docket No.: 200309856-2 US (1509-454)

17. (Original) The memory of claim 16, wherein the instructions enable a user to enter a mirror group comprising a plurality of buffer memories and the program module for writing of data from the buffer memories to one of the secondary storage devices being assigned to the mirroring media agent, and for specifying the coupling of a at least a sub-set of the buffer memories of the backup media agents and at least the sub-set of the buffer memories of the mirroring backup media agents.

18. (Original) The memory of claim 14, wherein the instructions enable a user to enter a restore group, the restore group comprising a plurality of backup media agents.

19. (Original) The memory of claim 18, wherein the computer instructions enable a user to enter at least one copy group, the copy group comprising backup media agents.

20. (Currently amended) A method of storing data objects on secondary storage devices by using plurality buffer memories at least a sub-set of which ~~are~~ is coupled in a daisy chain configuration, the method comprising the step of:

sequentially storing the data objects on one of the secondary storage devices by sequentially reading the data object from through the buffers buffer memories to the one secondary storage device.

21. (Currently amended) The method according to claim 20 further comprising coupling the sub-set of the buffer memories in the daisy-chain configuration prior to the data objects being read from the buffer memories.

Application No.: 10/697,948Docket No.: 200309856-2 US (1509-454)

22. (Currently amended) The method of claim 21, wherein the ~~buffers~~ buffer memories are coupled to provide one or more data mirroring stages.

23. (Currently amended) The method of claim 21, wherein the ~~buffers~~ buffer memories are coupled to provide one or more data copying stages.